Welcome!

We greatly appreciate your purchase of the DA1226AT 1-In, 6-Out RGBHV Distribution Amplifier (DA). We are sure you will find it reliable and simple to use. Superior performance for the right price, backed by solid technical and customer support is what ALTINEX has to offer.

We are committed to providing our customers with Signal Management Solutions® to the most demanding audiovisual installations at very competitive pricing and we welcome you to join the ranks of our many satisfied customers throughout the world.

1. Precautions and Safety Warnings

Please read this manual carefully before using your DA1226AT Distribution Amplifier. Keep this manual handy for future reference. These safety instructions are to ensure the long life of your DA1226AT and to prevent fire and shock hazard. Please read them carefully and heed all warnings.

1.1 General

- Unauthorized personnel shall not open the unit since there are high-voltage components inside.
- Qualified ALTINEX service personnel or their authorized representatives must perform all service.

1.2 Handling

- Place the DA1226AT on a flat, level surface in a dry area away from dust and moisture.
- To prevent fire or shock, do not expose this unit to water or moisture. Do not place the DA1226AT in direct sunlight, near heaters or heat-radiating appliances, or near any liquid. Exposure to direct sunlight, smoke, or steam can harm internal components.
- Handle the DA1226AT carefully. Dropping or jarring can damage internal components.
- Do not place heavy objects on top of the DA1226AT. If the DA1226AT is mounted to a table or wall, use only ALTINEX made mounting accessories (Rack Mount Ears DA1292FC) and cables.
- To turn off the main power, be sure to remove the cord from power outlet. The power outlet socket should be installed as near to the equipment as possible, and should be easily accessible.
- Do not pull power cord or any cable that is attached to the DA1226AT.
- If the DA1226AT is not used for an extended period of time, disconnect the power cord from the power outlet.

1.3 Cleaning

- Unplug the DA1226AT power cord before cleaning. Clean surfaces with a dry cloth. Never use strong detergents or solvents, such as alcohol or thinner. Do not use a wet cloth or water to clean the unit.

1.4 FCC Notice

- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions found herein, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
- Any changes or modifications to the unit not expressly approved by ALTINEX, Inc. could void the user's authority to operate the equipment.

2. Installation Procedures

Step 1. Please attach the Interface on the rack or table using the optional hardware.

Step 2. The DA1226AT may be used with either 110V or 220V and offers a universal IEC connector for ease of use throughout the world. Before plugging in the power cord to the unit, please verify that the voltage rating of 110V/220V on the Fuse Clip located at the rear of the unit is the same as the voltage rating on the power outlet. To change setting, unplug the power cord from the DA1226AT and squeeze the clips on either side of the fuse box. Then turn the Fuse Dip 180 degrees, repositioning it in the clip so that the voltage is visible through the window. Please reinsert the fuse box, and push it in until the side clips of the fuse box click and lock securely into place.

Step 3. Then connect the appropriate power cord for your country into the power input socket of the DA1226AT gently, but firmly. The power indicator light on the front panel of the DA1226AT should turn on.

Step 4. Connect the video output of the source of the (computer or other high-resolution source) to input of the DA1226AT using a high quality of coaxial-type cables. If the source offers a VGA-type 15-pin HD connector, use a HD 15 to 5-BNC made for the MS8102CA or the MS8112CA.

NOTE: An interface may be needed to provide the appropriate signal format type for the DA1226AT or to use a local monitor if needed.

Step 5. Connect the output channels of the amplifier to the display devices (monitors and/or projectors.) using a good quality of coaxial cables.

Step 6. Confirm picture quality on all displays. If you are not receiving a signal, make sure that the display is compatible with the resolution of the computer graphics card. If the picture quality is less than perfect, check to make sure that all connections are solid and use a high-quality cable.

3. Limited Warranty/Return policies

Please see the ALTINEX website at www.altinex.comfor details on warranty and return policies.

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4. Technical Specifications

Specifications are subject to change. See www.altinex.com for up-to-date information.

Features/Description	DA1226AT
General	
Inputs	
No. of Inputs	One (1)
Input Connectors	Set of 5 BNC F
Outputs	
No. of Outputs	Six (6)
Output Connectors	Set of 5 BNC F (30 BNCs)
Compatibility	
Signal Types	High resolution RGBHV, RGBS, RGsB and RsGsBs, Component, S-Video and Composite Video

Table 1. DA1226AT General

Mechanical	DA1226AT
Material	0.1" Al
Finish	Gray
Front/Back panels	Lexan
Height (inches)	1.75in (44mm) (1U)
Width (inches)	17.0in (432mm) (1 rack wide)
Depth (inches)	4.50in (114mm)
Weight (pounds)	5.0lbs (2.27kg)
Ship Weight (pounds)	7.0lbs (3.18kg)
T° Operating	10°C-35°C
T° Maximum	50°C
Humidity	90% non-condensing
MTBF (calculations)	40,000 hrs

Table 2. DA1226AT Mechanical

Electrical	DA1226AT
Input Video Signal	
Analog Signal	1.5 Vp-p max
Impedance	75 ohms
Input Sync Signal	
Horizontal, Vertical, & C-Sync	TTL(+/-)
Sync on Green	-0.3V
Impedance	10 kohms
Output Video Signals	
Analog Signal	Gain of 1.05 (+/-5%)
Fall/Rise Time (ns)	1.0
Impedance	75 ohms
Output Sync Signal	
C Sync, (Horizontal, Vertical)	TTL(+/-)
Sync on Green	-0.3V
Impedance	22 ohms
Frequency Compatibility	
Horizontal	15-200 kHz
Vertical	47-180 Hz
Typical Video Bandwidth	450 MHz @ -3dB
Minimum Video Bandwidth	350 MHz @ -3dB
Cable Equalization	3dB @ 120 MHz
Coupling	DC
Cross-talk	-40dB @10 MHz
Power	
Internal Power Supply	90-140/200-240 V switchable
Power Consumption	10 W max.

Table 3. DA1226AT Electrical

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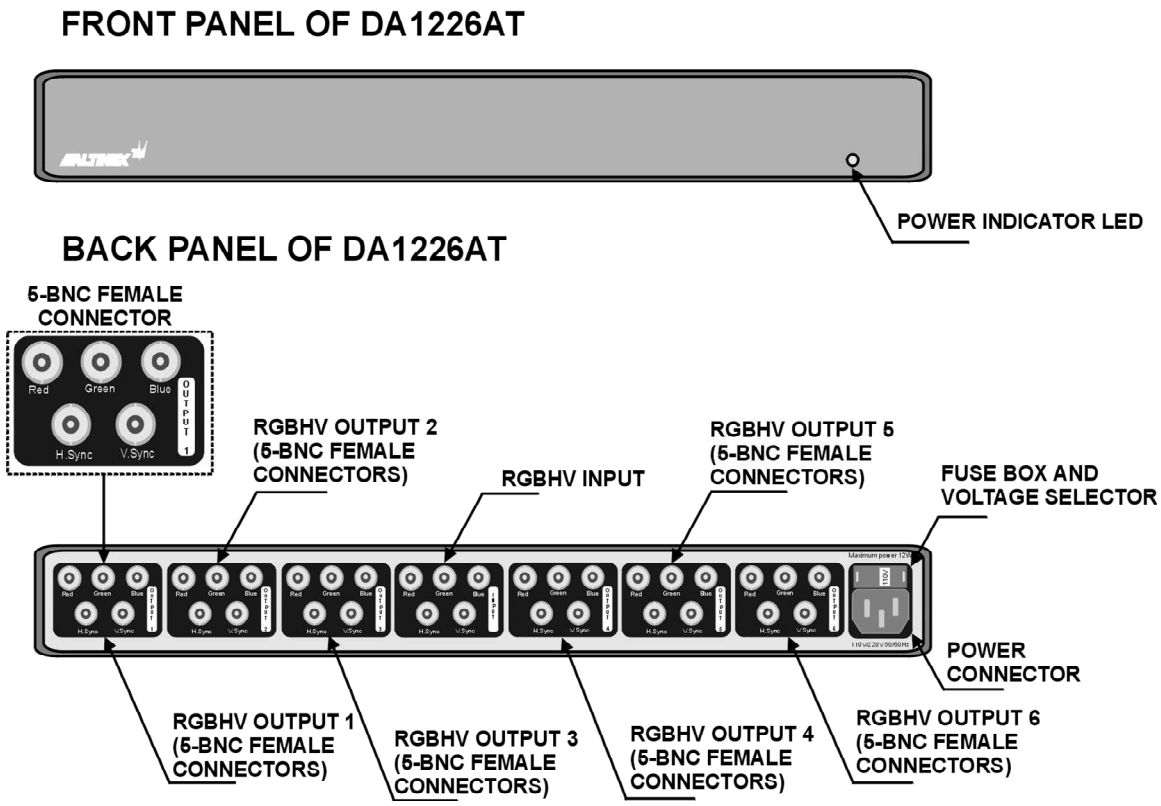
5. About Your DA1226AT

The DA1226AT is a 1-In 6-Out RGBHV distribution amplifier designed to allow the connection of a single computer video or interface source to as many as six monitors or projectors capable of handling the source resolution.

The DA1226AT offers excellent bandwidth performance (minimum 350 MHz) and a typical bandwidth of nearly 450 MHz, allowing it to remain virtually transparent to high-resolution signals.

Though primarily designed to pass an RGBHV signal format, the DA1226AT can also pass RGBS, RGsB, component video (Y, R-Y, B-Y), S-Video (Y/C), and composite video by using the appropriate channels. The DA1226AT outputs the same sync level as it receives on its input.

The DA1226AT offers a low-profile design, which helps to prevent tilting due to cable drag when used in desktop applications. The DA1226AT uses an internal 90-140/200-240V switchable power supply. It may be rack-mounted using optional hardware.



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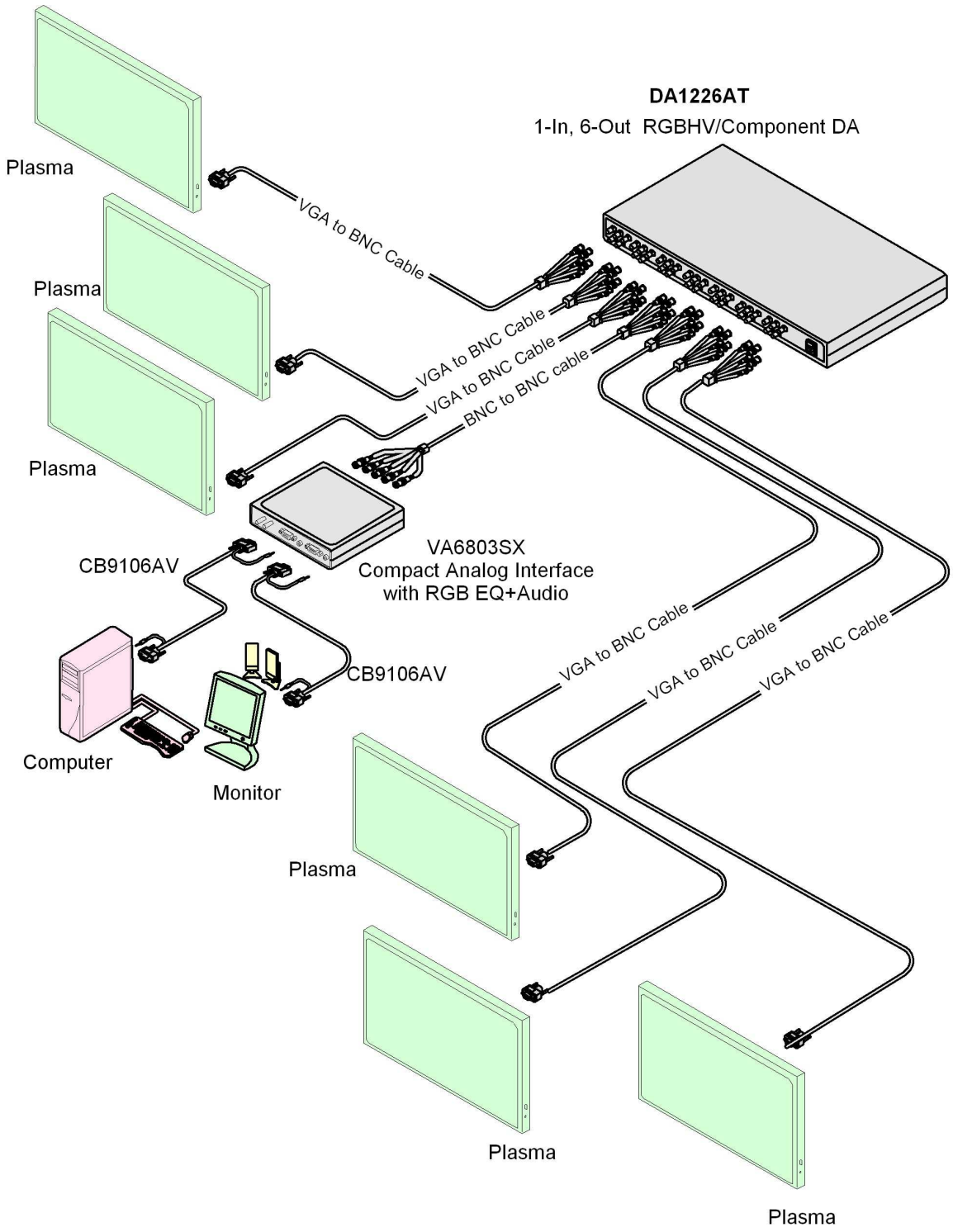
6. Application Diagrams

Diagram 1: Typical Setup



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7. Operation

The DA1226AT will operate successfully as long as cables are attached correctly and other technical specifications are followed. There are no other adjustments necessary to operate the unit.

8. Troubleshooting Guide

We have carefully tested and have found no problems in the supplied DA1226AT. However, we would like to offer suggestions for the following:

- Please make sure that the input amplitude of the analog signal is less than 1.5Vp-p.
- Please make sure that sync levels at the TTL level are between 1.4 and 5 Vp-p.
- Please make sure that the highest quality of cables is used. We recommend ALTINEX made cables for best results.
- If a problem arises after continuous usage at a higher voltage, higher temperature, higher humidity, or at other extreme environmental conditions, please correct the problem.

  NOTE: The sync pulse voltage must be at least 1.4 V for proper operation of the distribution amplifier. If lover voltage is used, contact ALTINEX for additional information.
- If there is no image on the display, make sure that the source has a compatible refresh rate and resolution with the display by a direct connector of the source and display.
- If the image quality is poor, then check the input of the cable so that the source is capable of driving signals to the DA1226AT through the length of the cable.
- If you are using a HD-15 to 5-BNC cable to connect a computer directly to the DA1226AT and do not see the picture or display use an interface to make the video signal compatible to display.

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